

FEATURES:

- 20 MHz– 3.5 GHz;
- 15 dB Gain;
- 1.2 dB Noise Figure;
- 12.0 dBm P_{1dB};
- 26.0 dBm IP₃;
- RoHS Compliant

APPLICATIONS:

- Radar;
- Receivers;
- ECM System;
- WBA Systems;
- Point to Point;
- Test & Measurement;
- Wide Band PA Driver



LNA00203500A, 20 MHz – 3.5 GHz WIDE BAND LOW NOISE AMPLIFIER

ELECTRICAL SPECIFICATIONS @ 25 °C

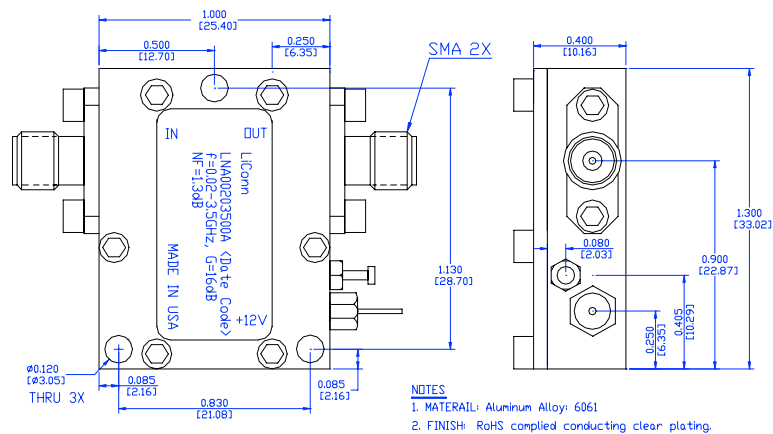
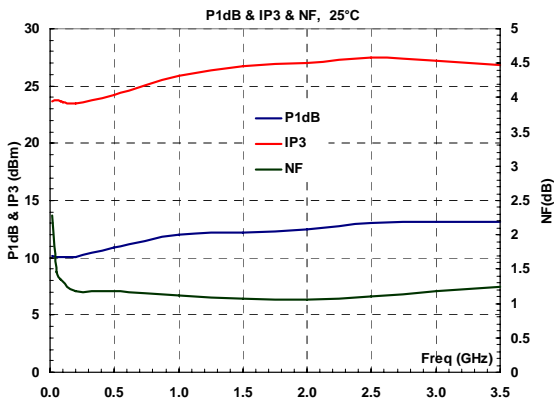
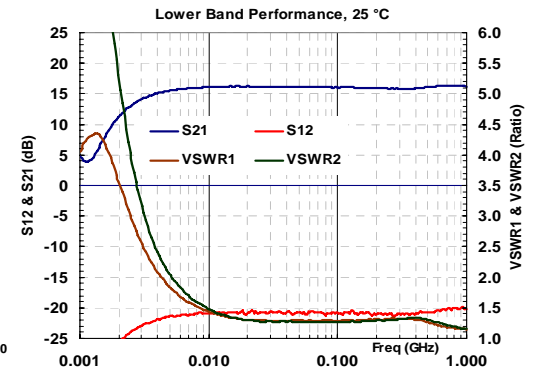
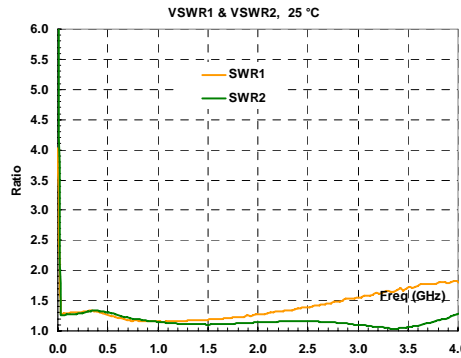
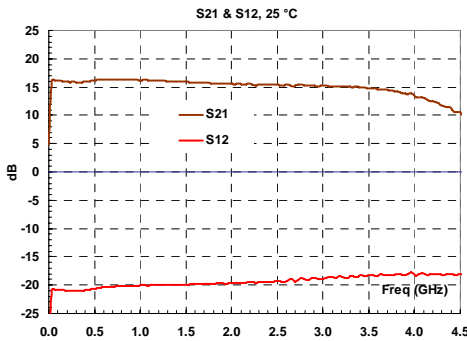
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
I _d	Device Current	mA		25	
G	Gain	dB	14	15	
ΔG	Gain Flatness	dB		±1.0	
Z ₀	Impedance	Ohm		50	
NF	Noise Figure	dB		1.2	1.6
OIP3	Output 3 rd Order Intercept	dBm		26	
P _{1dB}	Output 1dB Gain Compression	dBm		12	
S ₁₂	Reverse Isolation	dB		20	
V _{dd}	DC Power Supply Voltage	V	7	12	30
VSWR ₁	VSWR – Input	Ratio		1.35:1	1.8:1
VSWR ₂	VSWR – Output	Ratio		1.35:1	1.5:1

ABSOLUTE MAXIMUM RATINGS¹

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	+150
Drain Current	mA	150
Operating Temperature	°C	+85
RF Input Power	dBm	+13
DC Supply Voltage	V	30
Storage Temperature	°C	+150
Thermal Resistance	°C/W	220
Total Power Dissipation	mW	600

[1] Operation beyond these limits may cause permanent damage.

ELECTRICAL PERFORMANCE/MECHANICAL OUTLINE



ORDERING INFORMATION: LNA00203500A